046

present inventors has shown that the maximum thickness of the trunk portion 4 of a preform 1 used for a general-purpose medium-sized container lies within the range 3.0 to 4.0mm.

Page 69, please amend the paragraph section at lines 21 - 29 to read:

-In this preferred embodiment, when such a situation arises, the preforms 1 continuing to be injection molded in the preform molding station 10 are discharged to the side of the machine bed 8 through the above-mentioned preform dropout opening 8a, the cute 8b and discharge opening 8c instead of being transferred to the blow molding station 300 by the transfer station 200. This preform discharging operation can for example be carried out by the pair of neck holding members 234 of the inverting and handing over mechanism 230—

In the Claims:

(New)

Please delete claims 1 through 6 and add the following new claims:

-7.

An injection stretch blow molding apparatus, comprising:

2

a preform molding station for injection molding preforms;

.

a blow molding station for stretch blow molding the preforms into containers, and;

4

a transfer station for transferring the preforms from the preform molding station to the blow molding station,

C486

wherein the preform molding station comprises an injection molding section for simultaneously injection molding a first number N of the preforms at a first pitch, wherein N is greater than or equal to two,

10

12

14

16

C488

20

22

24

26

2

4

wherein the blow molding station comprises:

a circulatory carrier for intermittently circulatorily carrying the preforms along a carrying path at a second pitch larger than the first pitch, the preforms being transferred from the preform molding station through the transfer station;

a heating section for heating the preforms being transferred along the carrying path; and

a blow molding section for simultaneously blow molding n of the containers from a second number n of the preforms, wherein n is greater than or equal to one and less than N,

and wherein the transfer station comprises:

a receiving mechanism for simultaneously receiving the N preforms from the preform molding station with the N preforms at the first pitch,

a preform handling mechanism to move the preforms from the receiving mechanism to an intermediate location, and

a pitch changing and transfer mechanism for changing an array pitch of the preforms from the first pitch to the second pitch and also transferring n of the preforms from the intermediate location to the circulatory carrier in the blow molding station.

8. (New) The injection stretch blow molding apparatus as defined in claim
7, wherein each preform has a neck and the pitch changing and transfer
mechanism includes two neck supporting mechanisms each of which supports
the neck of the preform

	9.	(New)	The injection stretch blow molding apparatus as defined in claim
2		7, wherein the	pitch changing and transfer mechanism comprises a mechanism for
		moving the n	preforms along nonparallel paths with respect to each other.

10.

2

6

- (New) The injection stretch blow molding apparatus as defined in claim 7, wherein n equals two, wherein there are at least four adjacent preforms at the first pitch in the preform handling mechanism in the transfer station, and the pitch changing and transfer mechanism moves two nonadjacent preforms from the intermediate location to the circulatory carrier in the blow molding station.
- 11. (New) The injection stretch blow molding apparatus provided on a single machine bed, comprising:
- a preform molding station for simultaneously injection molding N preforms at a first pitch;
 - a blow molding station for simultaneously stretch blow molding n of the preforms at a second pitch into bottles, wherein N is an integer multiple of n and is greater than n, and the second pitch is greater than the first pitch;
 - a transfer station for transferring the preforms from the preform molding station to the blow station; and
- a single machine bed on which the preform molding, blow molding and transfer stations are provided,
- wherein the blow molding station comprises:

 a receiving section for receiving at least one preform from the preform molding

14	1
16	5
18	3
20)

station through the transfer station;

a circulatory carrier for intermittently circulatorily carrying the preforms along a carrying path, the preforms being received from the receiving section;

a heating section for heating the preforms carried along the carrying path;

a blow molding section for blow molding the at least one preform carried along the carrying path into the at least one bottle; and

a bottle ejecting section for ejecting the at least one bottle outside the apparatus, and wherein the blow molding section is provided at an end side of the machine bed opposite the receiving section.



12. (New) The injection stretch blow molding apparatus as defined in claim
11, wherein the machine bed is substantially rectangular, and wherein the preform
molding, transfer and blow molding stations are substantially linearly aligned on
the machine bed.

2

4

2

13. (New) The injection stretch blow molding apparatus as defined in claim 11, wherein the transfer station comprises:

4 prefo

a receiving mechanism for simultaneously receiving the N preforms from the preform molding station with the N preforms at the first pitch;

a pitch changing and transfer mechanism for changing an array pitch of the preforms from the first pitch to the second pitch while transferring n of the preforms to the circulatory carrier in the blow molding station, and

8

6

a preform handling mechanism to move the preforms from the receiving

mechanism to the pitch changing and transfer mechanism.

2

14. (New) The injection stretch blow molding apparatus as defined in claim
11, wherein each preform has a neck and the pitch changing and transfer
mechanism includes two neck supporting mechanisms each of which supports the
neck of the preform.

(New) The injection stretch blow molding apparatus as defined in claim

11, wherein the pitch changing and transfer mechanism comprises an advancing mechanism to move the n preforms along nonparallel paths with respect to each other.

16. (New) The injection stretch blow molding apparatus as defined in claim

11, wherein n equals two, wherein there are at least four adjacent preforms at the first pitch in the preform handling mechanism in the transfer station, and the pitch changing and transfer mechanism moves two nonadjacent preforms from the preform handling mechanism to the circulatory carrier in the blow molding station.

17. (New) The injection stretch blow molding apparatus comprising:

2 an injection molding station including injection cores and neck cavity molds for simultaneously injection molding a first number N preforms where N is greater than one and the preforms are in an upright state with an open neck portion facing upward;

4

6

8

a blow molding station for blow molding a second number n preforms where n is less than N into at least one container in an inverted state; and

a transfer station which turns the preforms upside-down and simultaneously transfers n of the preforms to the blow molding station in an inverted state;

wherein the injection molding station comprises an ejection mechanism for simultaneously ejecting the N preforms from the injection cores and the neck cavity molds;

and wherein the transfer station comprises:

a holding mechanism for holding at least the N preforms ejected from the injection cores and the neck cavity molds; and

an inverting mechanism for rotating the holding mechanism about a horizontal axis, thereby the N preforms are turned from the upright state to the inverted state.

18. (New) The injection stretch blow molding apparatus as defined in claim 17, wherein:

N is at least two and the N preforms are each disposed at a first pitch; and the blow molding station comprises a circulatory carrier for intermittently circulatorily carrying at least N preforms along a carrying path each disposed at a second pitch larger than the first pitch;

and wherein the transfer station further comprises:

a pitch changing mechanism-for changing an array pitch of the N preforms from the first pitch to the second pitch.

- 19. (New) The injection stretch blow molding apparatus of claim 18,

 wherein the holding mechanism comprises a first and a second pair of gripping members.
- 20. (New) The injection stretch blow molding apparatus of claim 19,
 wherein the holding mechanism further comprises a first mounting mechanism for mounting the first pair of gripping members, and a second mounting mechanism for mounting the second pair of gripping members.

21.

2

- (New) The injection stretch blow molding apparatus of claim 20, wherein the pitch changing mechanism comprises a third mounting mechanism for movably mounting the first and second mounting mechanisms to move relative to each other to change the pitch.
- 22. (New) The injection stretch blow molding apparatus of claim 18,

 wherein the pitch changing mechanism comprises a movement mechanism for moving the first and second pairs of gripping members relative to each other to change the pitch.
- 23. (New) The injection stretch blow molding apparatus of claim 17,

 wherein the pitch changing mechanism changes the pitch after the preforms are received by the receiving mechanism and the inverting mechanism inverts the preforms during transfer of the preforms from the transfer station to the blow

molding station.

24.

(New) The injection stretch blow molding device of claim 22,

2

4

wherein the pitch changing mechanism changes the pitch from the first pitch to

the second pitch by moving the first and second pairs of gripping members further

away from each other to a distance equal to a multiple of the first pitch and closer

to each other to a distance equal to the second pitch.

048

2

2

4

6

2

25

(New) The injection stretch blow molding apparatus of claim 7,

wherein the receiving mechanism comprises a holder for receiving the preforms at

the first pitch and in an upright state with an open mouth up.

26.

(New) The injection stretch blow molding apparatus of claim 7,

wherein the preform handling mechanism comprises an inversion mechanism for

inverting the preforms from an upright state with an open mouth facing up to an

upside down state with the mouth facing down, the pitch changing mechanism

changes the pitch after the preforms are received by the receiving mechanism, and

the inversion mechanism inverts the preforms during the transfer of the preforms

from the transfer station to the blow molding station.

27.

(New) The injection stretch blow molding apparatus of claim 7,

wherein the pitch changing mechanism includes a holding mechanism for holding

a neck of the preforms, and the holding mechanism comprises a first and a second

pair of gripping members.

- 28. (New) The injection stretch blow molding apparatus of claim 27,

 wherein the holding mechanism further comprises a first mounting mechanism for mounting the first pair of gripping members, and a second mounting mechanism for mounting the second pair of gripping members.
- (New) The injection stretch blow molding apparatus of claim 28,
 wherein the pitch changing mechanism comprises a third mounting mechanism
 for movably mounting the first and second mounting mechanisms to move them
 relative to each other to change the pitch.
 - 30. (New) The injection stretch blow molding apparatus of claim 27,

 wherein the pitch changing mechanism comprises a movement mechanism for moving the first and second pairs of gripping members relative to each other to change the pitch.
 - 31. (New) The injection stretch blow molding device of claim 30,

 wherein the pitch changing mechanism changes the pitch from the first pitch to
 the second pitch by moving the first and second pairs of gripping members further

 away from each other to a distance equal to a multiple of the first pitch and closer
 to each other to a distance equal to the second pitch.

32. (New) The injection stretch blow molding apparatus, comprising: 2 a preform molding station for injection molding preforms; a blow molding station for stretch blow molding the preforms into containers; and a transfer station for transferring the preforms from the preform molding station to 4 the blow molding station, wherein the preform molding station comprises an injection molding section for 6 simultaneously injection molding a first number N of the preforms at a first pitch, where N is greater than or equal to two, wherein the blow molding station comprises: a circulatory carrier for intermittently circulatorily carrying the preforms along a carrying path at a second pitch larger than the first pitch, the preforms being 12 transferred from the preform molding station through the transfer station; a heating section for heating the preforms being transferred along the carrying 14 path; and a blow molding section for simultaneously blow molding n of the containers from a second number n of the preforms, where n is greater than or equal to one, 16 and wherein the transfer station comprises: a receiving mechanism for receiving the preforms released from the preform 18 molding station while at the first pitch, a preform handling mechanism for moving the preforms while in the first pitch 20 from the receiving mechanism to an intermediate position between the receiving mechanism and the blow molding section, and 22 a pitch changing mechanism for changing an array pitch of the preforms

24

from the first pitch to the second pitch.

048

(New) The injection stretch blow molding apparatus of claim 32, wherein each preform has a neck and the pitch changing mechanism includes two neck supporting mechanisms each of which supports the neck of the preform.

6 34.

33.

(New) The injection stretch blow molding apparatus of claim 32, wherein the pitch changing mechanism changes the array pitch while the preforms are supported by the neck supporting mechanisms --

8

Remarks:

Claims 1-6 have been canceled and new claims 7 - 34 have been added.

Examination on the merits is respectfully requested.